

What is claimed is:

1. A white appearing aircraft position light comprising:
a support;
a plurality of LEDs mounted to the support, said LEDs consisting
5 essentially of cyan LEDs and amber LEDs, said LEDs selected to produce
light flux in a ratio of approximately three amber flux units for every one
cyan flux unit; and
a circuit for energizing said LEDs,
wherein said LEDs produce a composite light when energized, said
10 composite light appearing white but including little or no light having a
wavelength above 600nm.

2. The position light of claim 1, wherein said support comprises two
substantially planar surfaces adjacent to each other along one edge, said
15 surfaces defining an angle of approximately 90° between them.

3. The position light of claim 1, wherein said support is bisected by a
plane and is substantially symmetrical on either side of said plane, said
support comprising a substantially planar surface adjacent either side of
20 said plane said support surfaces defining an angle of approximately 90°
between them, said angle being bisected by said plane.

4. The position light of claim 1, comprising a plurality of PC boards,
each PC board including a plurality of LEDs in the ratio of two amber
25 LEDs for every one cyan LED.

5. The position light of claim 1, wherein said cyan LEDs produce light
having a dominant wavelength of approximately 492nm and the amber
LEDs produce light having a dominant wavelength of approximately
30 590nm.

6. The position light of claim 5, wherein each said LED has an optical axis, said position light comprising two thermally transmissive, substantially planar PC boards, a plurality of said LEDs mounted to each said PC board in the ratio of two amber LEDs to each cyan LED, the optical axes of the LEDs mounted to each said PC board are substantially parallel and said PC boards are mounted to said support to define an included angle of 90° between said PC boards.

7. The position light of claim 6, wherein said composite light is visible at an intensity of at least 20 candela over an arc of 140° in a horizontal plane, said arc centered on a line bisecting said included angle.

8. An aircraft position light comprising:
at least one PC board;
a plurality of LEDs mounted to said PC board, said plurality of LEDs comprising cyan LEDs and amber LEDs; and
a circuit for simultaneously energizing said plurality of LEDs, wherein said plurality of LEDs are selected to produce a composite light when energized, said composite light having a chromaticity center tolerance of approximately $X=0.418$ and $Y=0.397$, said composite light having a white hue.

9. The aircraft position light of claim 8, wherein each said LED has an average radiometric power and said LEDs are selected so that the radiometric power of said amber LEDs is approximately three times the radiometric power of said cyan LEDs.

10. The aircraft position light of claim 8, wherein each said LED radiates a luminous flux when energized, and said LEDs are selected so that the luminous flux produced by said amber LEDs is approximately three times the luminous flux produced by said cyan LEDs.

11. The aircraft position light of claim 8, comprising two amber LEDs for each cyan LED.

5 12. The aircraft position light of claim 8, comprising first and second substantially planar polygonal PC boards, said PC boards having an top surface and a bottom surface and substantially straight edges, said plurality of LEDs mounted to said top surface, wherein said PC boards are fixed with an edge of said first PC board aligned with and adjacent to an edge of said second PC board, said PC boards defining an included
10 angle of 90°.

13. The aircraft position light of claim 12, wherein the plurality of LEDs mounted to said first PC board is substantially identical to the plurality of LEDs mounted to said second PC board.

15 14. The aircraft position light of claim 12, wherein the plurality of LEDs mounted to said first PC board is substantially identical to the plurality of LEDs mounted to said second PC board and consists essentially of two amber LEDs and one cyan LED of substantially
20 equivalent size and power requirements.

15. The aircraft position light of claim 8, wherein said at least on PC board comprises a plurality of thermally transmissive substantially planar PC boards and said position light comprises:

25 a thermally conductive support for said PC boards, said support having a substantially planar surface for each of said PC boards, said planar surfaces adjoining along one edge to define an included angle between said planar surfaces.

30 16. The aircraft position light of claim 15, wherein said LEDs have a viewing angle and said viewing angle and said included angle result in a

light radiation pattern from the position light extending over an arc of 140° in a horizontal plane bisecting said position light.

17. A white appearing warning light comprising:

5 a plurality of LEDs each having a dominant wavelength below 600nm; and

an electrical circuit for generating current to energize said LEDs to produce a composite light,

10 wherein said LEDs comprising said plurality of LEDs are selected so that said composite light has an aviation white chromaticity.

18. The warning light of claim 17, wherein said plurality of LEDs consists essentially of amber LEDs and cyan LEDs in the ratio of two amber LEDs for every one cyan LED.

15 19. The warning light of claim 17, wherein said plurality of LEDs include amber LEDs having a dominant wavelength of approximately 590nm and cyan LEDs having a dominant wavelength of approximately 492nm.

20 20. The warning light of claim 19, wherein said amber LEDs and said cyan LEDs are selected so that the radiometric power of said amber LEDs is approximately three times the radiometric power of said cyan LEDs.